H

(12) United States Patent Wang

(10) Patent No.:

US 6,614,774 B1

(45) Date of Patent:

Sep. 2, 2003

(54)	METHOD AND SYSTEM FOR PROVIDING
` '	WIRELESS MOBILE SERVER AND PEER-
	TO-PEER SERVICES WITH DYNAMIC DNS
	UPDATE

(75) Inventor: Jin Wang, Lisle, IL (US)

(73) Assignce: Lucent Technologies Inc., Murray Hill,

NJ (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/205,963

(22) Filed: Dec. 4, 1998

(51) Int. Cl. H04Q 7/24 (52) U.S. Cl. 370/338; 370/342 (58) Field of Search 370/401, 351–354,

> 370/328, 329, 389, 475, 431, 437, 337, 442; 455/432, 433, 435, 436, 450; 709/223, 217, 227, 245, 249

(56) References Cited

U.S. PATENT DOCUMENTS

5,590,175	Α		12/1996	Gallant et al 455/433
5,790,548	Α		8/1998	Sistanizadeh et al 370/389
5,793,762	A		8/1998	Penners et al 370/401
5,797,096	Α		8/1998	Lupien et al 379/58
5,825,759	Α			Liu 370/331
5,872,523	Α			Dellaverson et al 340/825.52
6,046,980	Α	٠		Packer 370/230
6,052,725	Α			McCann et al 709/223
6,137,791				Frid et al 370/352

6,226,523 B1 6,230,012 B1 6,308,213 B1	• 5/2001 • 5/2001 • 10/2001	Orsic 370/349 Karlsson et al. 455/466 Willkie et al. 455/435 Valencia 709/229
		Valencia

FOREIGN PATENT DOCUMENTS

EP 0 483 547 A 5/1992

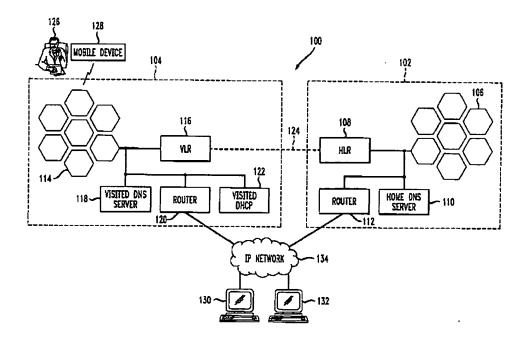
* cited by examiner

Primary Examiner—Dang Ton
Assistant Examiner—Melanie Jagannathan

(57) ABSTRACT

A method and communications system provide data and voice services to subscribers at mobile terminals using dynamic IP address assignment and dynamic DNS update, A visited network dynamically assigns one of its IP addresses to a mobile terminal away from its home network accessing the visited network as a session IP address. The visited network transmits the assigned IP address to the home network of the mobile terminal over a private network. The home network associates the assigned IP address from the visited network with the host name of the mobile terminal in a DNS server of the home network and sends the host name to the visited network, although the visited network may already have received the host name from the mobile terminal. The visited network associates the host name of the mobile terminal with the assigned IP address its DNS server. Upon termination of the call by the mobile terminal, the visited network disassociates the assigned IP address with the host name in its DNS server and instructs the home network to do the same.

19 Claims, 4 Drawing Sheets











Field Codes and Definitions

Use the following codes with the <in> operator to specify a particular field for searching.

Field Name	Code	Note
Abstract	ab	
<u>Affiliation</u>	cs	Corporate Source.
Author(s)	au	
Catalog Number	ca	
CODEN	cn	
Conference Title	ct	See also <u>Title</u> .
<u>ISBN</u>	in	
<u>ISSN</u>	in	
Issue Number	is	
Journal Name	jn	Journal Name.
Meeting Date	су	
Part Number	pt	
Subject Term	de	Descriptor.
<u>Title</u>	ti	See also <u>Conference Title</u> .
Volume Number	vo	

IEEE Member Digital Library

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Public	ations/Services Standards Conferences Careers/Jobs	
IEEE,	Welcome United States Patent and Trademark Office	IEEE Xplore® 1 Million Documents 1 Million Users
Help FAQ Terms IE	EE Peer Review Quick Links	» Search Results
Welcome to IEEE <i>Xplore</i> - Home - What Can I Access?	Your search matched 0 of 1013964 documents. A maximum of 500 results are displayed, 15 to a page, sorted by Descending order.	Relevance in
O- Log-out	Refine This Search:	
Tables of Contents	You may refine your search by editing the current search expression new one in the text box.	on or entering a
O- Journals & Magazines	(reclaim? <in>ab) <and> (ip<in>ab)</in></and></in>	
Conference Proceedings	☐ Check to search within this result set	
O- Standards	Results Key: JNL = Journal or Magazine CNF = Conference STD = Standard	
Search		
O- By Author O- Basic O- Advanced	Results: No documents matched your query.	
Member Services		
O- Join IEEE O- Establish IEEE Web Account		
O- Access the		

Home | Log-out | Journals | Conference Proceedings | Standards | Search by Author | Basic Search | Advanced Search | Join IEEE | Web Account | New this week | OPAC Linking Information | Your Feedback | Technical Support | Email Alerting | No Robots Please | Release Notes | IEEE Online Publications | Help | FAQ| Terms | Back to Top

Copyright © 2004 IEEE — All rights reserved